

## About

In this study, researchers will characterize **personal exposure to traffic-related air pollutants** during daily commutes for pregnant women. No previous studies have broadly examined gestational exposure to traffic-related air pollutants while commuting.

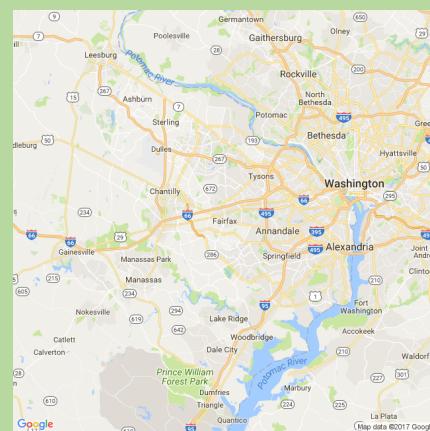


## About

Study participants will:

- Complete a 15 minute survey about their commute.
- Wear a portable air pollution monitor for one full workday (e.g. 6 AM-8 PM), including during their commute.
- Have commute information recorded.

*For study completion, participants will receive a \$50 Amazon gift card.*



## Participant criteria

Women who:

- Are in their 1<sup>st</sup> or 2<sup>nd</sup> trimester of pregnancy.
- Live in northern Virginia.
- Commute at least 15 minutes to work.
- Commute by personal vehicle.
- Commute 3 or more days per week.



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## Gestational Exposure to Traffic Pollution in the DC metro area

study:  
**GEST DC**



Exposures to these  
pollutants during pregnancy  
may increase the risk of:

- gestational diabetes
- low birthweight
- preclampsia
- preterm birth

Traffic-related air pollution  
may be particularly harmful,  
and includes particulate  
matter, nitrogen oxides,  
organic carbon, and metals.

Ambient air pollution is  
associated with over 3  
million deaths each year  
worldwide.

**Background**